PLANT SCIENCE

CONTENTS
Vol. 94, No. 1,2

REVIEW ARTICLE

The path of chromoplast development in fruits and flowers
by M.R. Marano, E.C. Serra, E.G. Orellano, N. Carrillo (Rosario, Argentina) 1–17

PHYSIOLOGY AND BIOCHEMISTRY

Characterization of thermal damage to the photosynthetic electron transport system in potato leaves
by M. Havaux (Saint-Paul-lez-Durance, France) 19–33

Purification of a mung bean protein binding to microtubules through two defined sites in the carboxyl-terminal domain of β-tubulin
by P.P. Jablonsky, J. Elliott, R.E. Williamson (Canberra, Australia) 35–45

Affinity purification and characterization of lectins from two *Amaranthus* species
by J. Singh, K.K. Kamboj, S.S. Kamboj, R.S. Sandhu, S. Shangary (Amritsar, India) 47–53

Alteration of the stromal side of photosystem II by diphenylcarbazide
by M. Purcell, R. Carpentier (Québec, Canada) 55–59

Distribution of two transposon-like elements in rice
by X.-q. Wang, G.-z. Shen, F.-q. Zheng, Z.-y. Wang, J.-l. Zhang, M.-m. Hong (Shanghai, China) . 61–69

Characterization of ribosomal protein phosphorylation in maize axes during germination
by A. Pérez-Méndez, R. Aguilar, E. Briones, E. Sánchez-de-Jiménez (México, Mexico) 71–79

Effects of selenite, CO_2 and illumination on the induction of selenium-dependent glutathione peroxidase in *Chlamydomonas reinhardtii*
by T. Takeda, Y. Nakano, S. Shigeoka (Nara and Osaka, Japan) 81–88

Respiration, soluble carbohydrates and enzymes of carbohydrate metabolism in tips of harvested asparagus spears
by D.E. Irving, P.L. Hurst (Levin, New Zealand) 89–97

Glycerate accumulation in shoots of faba bean (*Vicia faba* L.)
by K. El Bouhmadi, F. Larher (Rennes, France) 99–107

GENETICS AND MOLECULAR BIOLOGY

Isolation and characterization of two cDNAs that encode for calmodulin-binding proteins from corn root tips
by A.S.N. Reddy, D. Takezawa, H. Fromm, B.W. Poovaiah (Pullman, WA; Rehovot, Israel) 109–117

The cloning and characterization of a cDNA encoding a cytochrome P450 from the flowers of *Petunia hybrida*
by T. Toguri, M. Azuma, T. Ohtani (Yokohama, Japan) 119–126

Protein kinase activity and protein phosphorylation in rice (*Oryza sativa* L.) leaf
by S. Komatsu, H. Hirano (Ibaraki, Japan) 127–137

Improved high-level constitutive foreign gene expression in plants using an AMV RNA4 untranslated leader sequence
by R.S.S. Datla, F. Bekkaoui, J.K. Hammerlindl, G. Pilate, D.I. Dunstan, W.L. Crosby (Saskatchewan, Canada) 139–149

Transformation of sweet potato (*Ipomoea batatas* (L.) Lam.) plants by *Agrobacterium rhizogenes*
by M. Otani, M. Mii, T. Handa, H. Kamada, T. Shimada (Ishikawa, Ibaraki and Chiba, Japan) .. 151–159

CELL AND TISSUE STUDIES IN VITRO

Ribosome-inactivating proteins and agglutinins from callus and suspension cultures of *Ricinus communis* L. and *Abrus precatorius* L.
by I. D'Silva, C.S. Vaidyanathan, S.K. Podder (Bangalore, India) 161–172

(Continued on inside back cover)

Cited in: Biological Abstracts; Chemical Abstracts; Current Contents (Life Sciences); Current Contents (Agriculture, Biology & Environmental Sciences); PASCAL M

Printed and Published in Ireland
This journal is printed on acid-free paper

0168-9452(1993)94:1/2;1-3

(*Contents continued*)

Somatic embryogenesis of tetraploid plants from internodal segments of a diploid cultivar of *Asparagus officinalis* L. grown in liquid culture
by Y. Odake, A. Udagawa, H. Saga, M. Mii (Kanagawa and Chiba, Japan) 173–177
Plants from cell suspension-derived protoplasts in *Lolium* species
by Z.Y. Wang, J. Nagel, I. Potrykus, G. Spangenberg (Zürich, Switzerland) 179–193
Phytotoxicity of deoxynivalenol to wheat tissue with regard to in vitro selection for Fusarium head blight resistance
by M.B.M. Bruins, I. Karsaï, J. Schepers, C.H.A. Snijders (Wageningen, The Netherlands; Martonvásár, Hungary) 195–206
Maturation of alfalfa (*Medicago sativa* L.) somatic embryos by abscisic acid, sucrose and chilling stress
by C.G. Lecouteux, F.-M. Lai, B.D. McKersie (Ontario, Canada) 207–213
Cryopreservation of the conchocelis of the marine alga *Porphyra yezoensis* Ueda (Rhodophyta) in liquid nitrogen
by K. Kuwano, Y. Aruga, N. Saga (Tokyo and Shizuoka, Japan) 215–225

GENERAL

Septoria cirsii, a potential biocontrol agent of Canada thistle and its phytotoxin — β-nitropropionic acid
by J. Hershenhorn, M. Vurro, M.C. Zonno, A. Stierle, G. Strobel (Bozeman, MT; Bari, Italy) ... 227–234

Book reviews 235–236
Subject index Volume 94 (1993) 237–239
Author index Volume 94 (1993) 241

Subscription information 1993: Vols. 88–96 (9 vols. in 18 issues). IR£1053.50 + IR£103.50 postage, packing and handling. Total price IR£1157.00. Journals are automatically sent by air to the U.S.A. and Canada at no extra charge, and by surface delivery to all other countries. Airmail rates for other countries are available on request. Subscription orders can only be entered by calendar year (Jan–Dec) and should be sent to Elsevier Scientific Publishers Ireland Ltd., P.O. Box 85, Limerick, Ireland. Tel. (061) 471944, Telex 72191, or to your usual subscription agent. Claims for missing issues should be made within three months of publication, otherwise they cannot be honoured free of charge.

In the U.S.A. and Canada: for further information concerning this or any other Elsevier Science Publishers journal, contact Elsevier Science Publishers, Journal Information Center, 655 Avenue of the Americas, New York, NY 10010. Tel. (212) 989–5800.